Read N3S Data

INTRODUCTION

EnSight supports files as written from N3S (a commercial CFD solver). Versions 3.0, 3.1, and 3.2 are supported.

Reading data into EnSight is a two-step process. First, the appropriate files are selected. This step is largely the same regardless of the format of the data being read. Second, parts are constructed using an interface that is specific to the applicable data format. This article covers the second step for N3S data. See **How To Read Data** for more information on selecting the appropriate files.

N3S datasets consist of the following files. Note that the entry in the File Name column is only a suggestion – it typically does not matter to EnSight what the actual file name is.

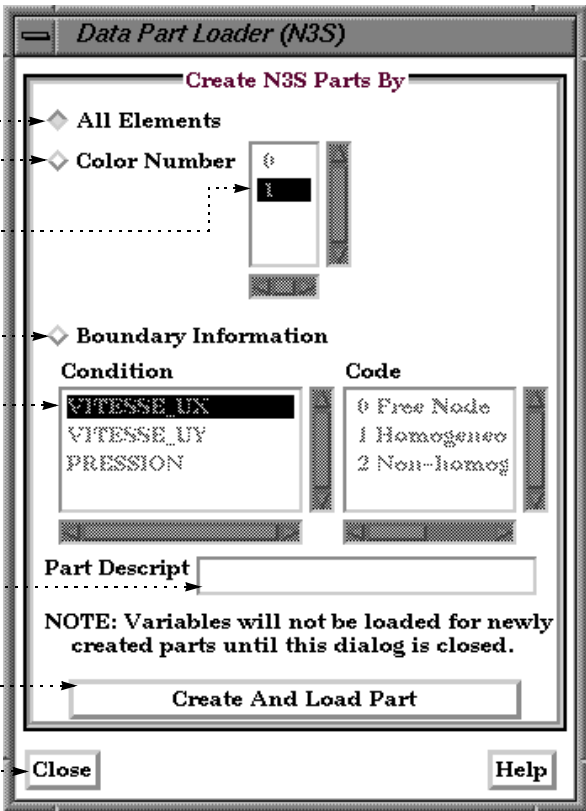| File	File Name	Notes	Required?
Geometry	file.geo	Contains coordinates and element connectivity	required
Result	file.res	Contains time and variable data	required

BASIC OPERATION

After you have specified the appropriate data files with the File Selector (opened with File > Data (Reader)... as discussed in **How To Read Data**) and clicked Okay, the Data Part Loader (N3S) dialog will open. You use this dialog to build the desired parts. To build parts for the N3S format data:

1. If the Data Part Loader dialog is not open, select File > Data (Part Loader)...

There are three methods for building parts from N3S geometry: All Elements, by Color Number, or by Boundary Information. Do *one* of the following:

2. Click All Elements

   – OR –

2. Click Color Number and select the desired number.

   – OR –

2. Click Boundary Information and select the desired Condition and Code.

3. If desired, enter a name for the part (to use in the Main Parts list).

4. Click Create and Load Part.

5. Click Close when done.

Data Part Loader (N3S)

Create N3S Parts By

◇ All Elements
◇ Color Number   0
                 1

◇ Boundary Information

Condition   Code
VITESSE_UX   0 Free Node
VITESSE_UY   1 Homogeneo
PRESSION   2 Non–homog

Part Descript [   ]

NOTE: Variables will not be loaded for newly created parts until this dialog is closed.

Create And Load Part

Close   Help

OTHER NOTES

You can reopen the Data Part Loader dialog at any time to build additional parts. Simply select File > Data Part Loader)... and build the desired parts as described above.

SEE ALSO

How To Read Data

User Manual: **N3S Reader**